

## **Chapter : 2003 Jordan Atomic Energy Commission**

- Creation:** Jordan Atomic Energy Commission was established early in 2008 as a successor for Jordan Nuclear Energy Commission in order to transport, enhance and develop peaceful uses for nuclear energy.
- Vision :** Transforming Jordan from an importer country of energy into an exporter country of energy by 2030 and peaceful and safe usage of nuclear energy within the best international practices and the most safe for community and environment.
- Mission:** Contribute to social and economic development through the usage of nuclear reactors in electricity generation and water desalination and any other peaceful purposes and transforming from direct dependence on fossil fuel sources to alternative energy sources.
- Legal Framework :** Atomic Energy Law No.(42) for 2007 and amendments thereto.

### **Tasks of the Ministry / Department:**

- \_ Implement the vision and integrated strategy for the Jordanian nuclear program for peaceful purposes.
- \_ Build and develop the required human staffs and capacities to implement the Jordanian nuclear program
- \_ Enhance cooperation with IAEA and similar institutions and with friendly and expertise countries in the field of atomic energy and radiation technology

### **Ministry/Department Contribution to the Achievement of the National Objectives:**

- \_ Develop and upgrade the institutional capacities of the Commission.
- \_ Transport, settle and develop nuclear energy and radiation technology in the kingdom and expand and sustain their usage
- \_ Establish investment projects to serve the national economy in the field of nuclear energy and radiation technology and using them for electricity generation, water desalination and other applications
- \_ Promote the position of Jordan in terms of science and transform Jordan into a regional center in the field of nuclear research and applications.
- \_ Establish nuclear reactors and use the Jordanian Uranium to provide energy alternatives and water desalination
- \_ Use and invest the natural nuclear investments existing in Jordan such as Uranium and thorium, and other natural minerals like unique elements
- \_ Transform Jordan into a regional center for producing medical radioisotopes and train the competent scientific staffs

### **Major Issues and Challenges which face the Ministry / Department:**

- \_ Lack of sufficient financial resources necessary for implementing the Jordanian nuclear program.
- \_ Lack of national human competences with critical specializations necessary for program implementation which will lead to using foreign competences with high costs.
- \_ Some people doesn't deal objectively with the Jordanian nuclear program and distorting realities and benefits of it and look at it as a major economic and social problem

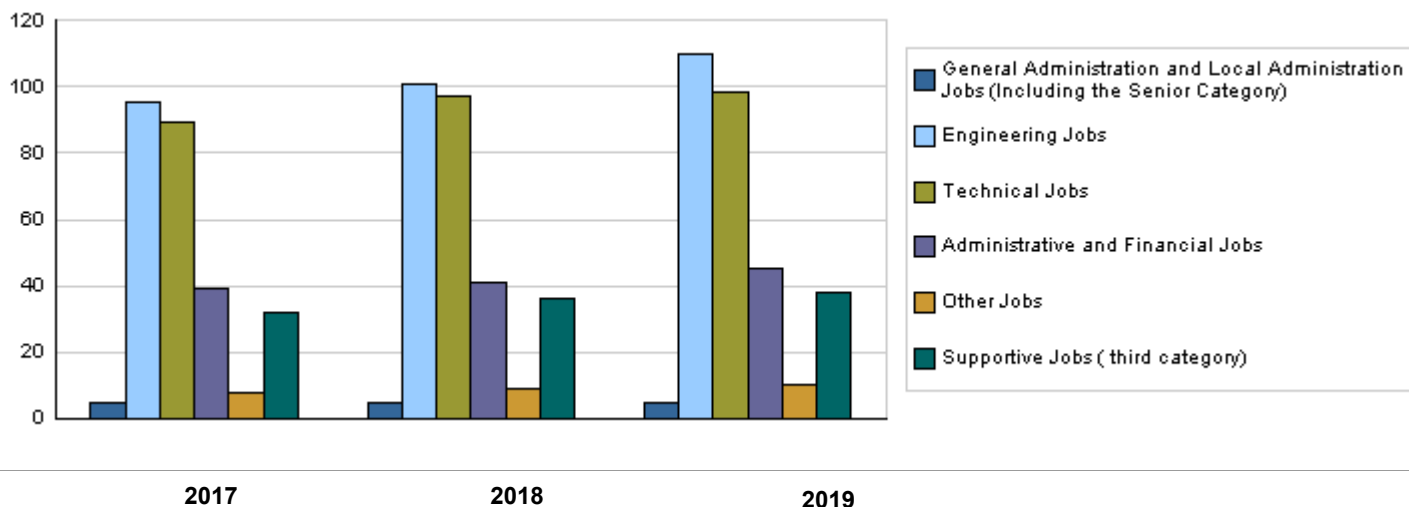
## CHAPTER : 2003 Jordan Atomic Energy Commission

### Strategic Objectives and Performance Indicators of the Ministry / Department

Strategic Objective	Performance Indicator	Base year	Value	Actual Value	Target Value	Preliminary Self Evaluation	Target Value		
				2017	2018	2018	2019	2020	2021
1 - To develop and upgrade the institutional capacities of the Commission	1 Percentage of Commission's stakeholders satisfaction	2016	%93	%94	%95	%95	%96	%97	%98
	2 Number of specialists and qualified technicians working on the Jordanian Nuclear program projects	2016	170	268	289	289	306	320	330
2 - To transfer, localize, develop and sustain the nuclear energy and radiology technology	1 Number of signed nuclear cooperation agreements with interested countries	2016	3	6	7	7	8	8	9
	2 Number of national and regional projects implemented	2016	14	16	18	18	20	22	24
3 - To establish investment projects to serve the national economy in the field of radiology technology and nuclear energy and to use them in generating electric power and water desalination in addition to other fields	1 Percentage of Uranium to total number of explored sites	2016	%10	%55	%60	%60	%60	%63	%65
	2 Kinds of medical radioisotopes produced using the Jordanian nuclear reactor for research and training	2016	-	-	1	1	3	4	5

### Number of Staff of the Ministry / Department

Group	Job	2017			2018			Preliminary 2019		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
General Administration and Local Administration Jobs (Including the Senior Category)	Supervising and Leading Jobs	5	0	5	5	0	5	5	0	5
Engineering Jobs	Engineer	79	16	95	81	20	101	86	24	110
Technical Jobs	Technical Jobs	73	16	89	78	19	97	78	20	98
Administrative and Financial Jobs	Financial Administration Jobs	23	16	39	23	18	41	27	18	45
Other Jobs		5	3	8	6	3	9	7	3	10
Supportive Jobs ( third category)	Supportive Employee ( Driver, Office Boy )	30	2	32	34	2	36	36	2	38
Total		215	53	268	227	62	289	239	67	306
Total Cost of Salaries		0	0	0	0	0	0	2431395	681605	3113000



Key Information of the Ministry / Department						
No.	Description	2015	2016	2017	2018	2019
1	Number of companies/ institutions specialized in nuclear and radiology technology and energy dealing with the Commission	4	4	4	4	3
2	Number of companies/institutions benefiting from radiant wastes storage and transport services provided by the Commission	20	20	14	18	22
3	Number of companies benefiting from gamma ray sterilization provided by the Commission	26	27	29	30	30
4	Number of Jordanian universities benefiting from the technical facilities of the Commission including scientific research	10	10	10	10	12
5	Number of institutions / companies benefiting from lab testing to discover radiology pollutants and measurements services and radiology calibration in the Commission and measure personal radiology doses	110	111	116	121	122
6	Number of institutions/ hospitals / medical centers using medical radioisotopes produced by the Jordanian nuclear reactor for training and research	0	0	0	0	12

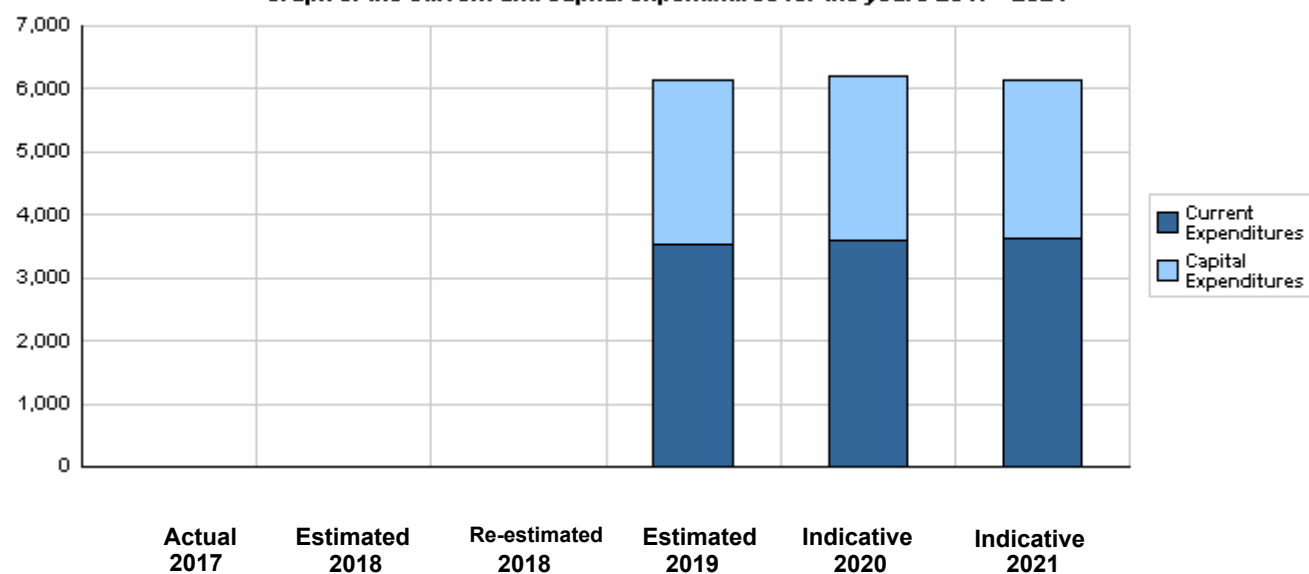
**Overall Summary of Expenditures for Chapter 2003- Jordan Atomic Energy Commission**  
for the Years 2017 - 2021

( In JDs )

Description		Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020 2021	
<b>Group</b>	<b>Current Expenditures</b>						
2111	Salaries, Wages and Allowances	0	0	0	2,780,000	2,822,000	2,864,000
2121	Social Security Contributions	0	0	0	333,000	341,000	346,000
2211	Use of Goods and Services	0	0	0	328,000	328,000	328,000
2821	Other Current Expenditures	0	0	0	100,000	100,000	100,000
<b>Total current expenditures</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>3,541,000</b>	<b>3,591,000</b>	<b>3,638,000</b>
<b>Capital Expenditures</b>							
2211	Use of Goods and Services	0	0	0	1,010,000	1,010,000	910,000
2511	Subsidies to Public Corporations	0	0	0	535,000	535,000	535,000
2822	Other Capital Expenditures	0	0	0	350,000	350,000	350,000
3111	Buildings and Constructions	0	0	0	500,000	500,000	500,000
3112	Devices, Machinery and Equipment	0	0	0	80,000	80,000	80,000
3122	Inventories	0	0	0	125,000	125,000	125,000
<b>Total capital expenditures</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>2,600,000</b>	<b>2,600,000</b>	<b>2,500,000</b>
<b>Treasury</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>2,600,000</b>	<b>2,600,000</b>	<b>2,500,000</b>
<b>Total current and capital expenditures</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>6,141,000</b>	<b>6,191,000</b>	<b>6,138,000</b>

( Thousands of JDs )

**Graph of the current and capital expenditures for the years 2017 - 2021**



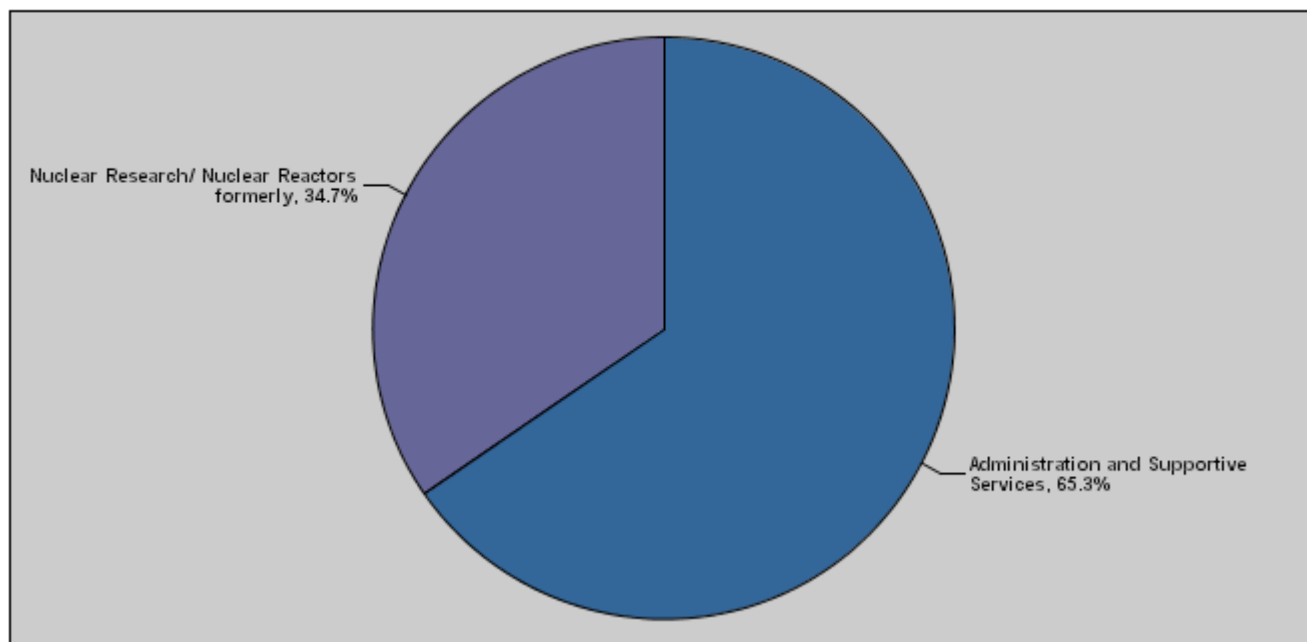
**Budget of Chapter 2003 - Jordan Atomic Energy Commission**

**For the Year 2019 Distributed According to Program**

**( In JDs )**

Prog.	Description	Current Expenditures	Capital Expenditures	Total Expenditures
6181	Administration and Supportive Services	2,477,000	1,535,000	4,012,000
6184	Nuclear Research/ Nuclear Reactors formerly	1,064,000	1,065,000	2,129,000
<b>Total</b>		<b>3,541,000</b>	<b>2,600,000</b>	<b>6,141,000</b>

**Total Expenditures for the Year 2019 Distributed According to Programs**



**Estimated Allocations for Females distributed according to Programs for the Years 2017 - 2021**

Program	2017	2018	2019	2020	2021
6181 Administration and Supportive Services	0	0	545000	552000	558000
6184 Nuclear Research/ Nuclear Reactors formerly	0	0	234000	238000	242000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>779000</b>	<b>790000</b>	<b>800000</b>

**Budget Chapter 2003 - Jordan Atomic Energy Commission Distributed According to the Program**

<b>6181</b>	<b>Administration and Supportive Services Program</b>
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**Objective of the program :**

- 1- Transfer, indigenize, develop and sustain the uses of nuclear energy and radiation technology.
- 2- Establish investment enterprise to serve the national economy in the field of radiation technology and nuclear energy.
- 3- Use the nuclear reactors of different capacities for electrical power generation and water desalination.
- 4-Explore and mine Uranium and rare land minerals and produce the Uranium Concentrate ( yellowcake) to enhance the local energy sources.
- 5- Provide work environment and logistic services for units and directorates.
- 6- Develop the capacities of the Commission's directorates and units.
- 7- Improve the management of programs and projects implemented by the Commission.

**The strategic objective related to the program :**

- 1- Develop and upgrade the Commission's institutional capacities
- 2- Transport, localize, develop and maintain the nuclear energy and radiology technology

**Directorates associated with the program :**

- Technical Services Directorates:-
- Research and Information Labs Directorate.
- Uranium Labs Directorate.
- Gama Radiology Directorate.
- Human Resources Directorate.
- Financial Affairs Directorate.
- Administrative Affairs Directorate.
- Auditing and Internal Control Unit.
- Institutional Development Unit.
- President Office and Bureau.

**Services provided by the program :**

- Provide training opportunities for specialists and technicians to operate and sustain nuclear reactors and different scientific facilities.
- Implement the Commission's decisions and recommendations of financial and administrative impact.
- Prepare the Commission's annual budget draft.

**Staff working in the program :**

The program is implemented through a functional staff in 2018 estimated with ( 209 ) staff, including ( 167 ) males and ( 42 ) females .

**Performance Measurement Indicators for Program**

Performance Measurement Indicator		Base Year	Value	Actual value	Target Value	Preliminary Self Evaluation	Target Value		
				2017	2018	2018	2019	2020	2021
1	Satisfaction Percentage of the Commission's stakeholders	2016	%93	%94	%95	%95	%96	%97	%98
2	Number of nuclear cooperation agreements signed with specialized countries	2016	3	6	7	7	8	8	9
3	Number of specialized qualification courses in the field of Commission's functions	2016	%45	%55	%50	%60	%70	%80	%90
4	Number of national and regional projects implemented by the IAEA and AAEA	2016	14	16	18	18	20	22	24
5	Percentage of Uranium presence to total number of explored sites	2016	%10	%55	%60	%60	%60	%63	%65

**Appropriations Of Administration and Supportive Services Program as Per Activities and Projects.**

**( In JDs )**

Activities and Projects		Actual	Estimated	Re-estimated	Estimated	Indicative	
		2017	2018	2018	2019	2020	2021
<b>Current Expenditures</b>		0	0	0	2,477,000	2,508,000	2,537,000
601	Administrative and support services	0	0	0	2,477,000	2,508,000	2,537,000
<b>Capital Expenditures</b>		0	0	0	1,535,000	1,535,000	1,435,000
001	Administration and Support Services Program Administration Project	0	0	0	1,000,000	1,000,000	900,000
002	Supporting energy projects	0	0	0	535,000	535,000	535,000
<b>Program / Treasury</b>		0	0	0	1,535,000	1,535,000	1,435,000
<b>Total Program</b>		0	0	0	4,012,000	4,043,000	3,972,000

**Budget Chapter 2003 - Jordan Atomic Energy Commission Distributed According to the Program**

<b>6184</b>	<b>Nuclear Research/ Nuclear Reactors formerly Program</b>
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**Objective of the program :**

Establish Jordanian center for nuclear research using a 5 mega watt nuclear reactor which can be increased to (10) mega watt and to put under the disposal of researchers from Jordanian institutes and universities, produce radioisotope especially those used in the nuclear medicine, establish nitrogen activation analysis labs and train nuclear engineering and other sciences students.

**The strategic objective related to the program :**

Establish investment projects to serve the national economy in the field of radiology and nuclear energy technology and use them in electricity generation and water desalination as well as in other fields.

**Directorates associated with the program :**

- Nuclear Safety, Security and Guarantees Directorate
- Establishment Operations Directorate
- Technical Support and Supportive Services Directorate
- Nuclear Safety and Licenses Directorate
- Reactor Operation Directorate
- Establishment Maintenance Unit
- Administrative Services Unit
- Quality Assurance Unit
- Scientific Research Unit

**Services provided by the program :**

- Education and training to support nuclear engineering programs and nuclear reactors operation.
- Analysis using Neutron activation technique.
- Produce radioisotopes, of the most important those used in nuclear medicine as Iodine, Molybdenum and Iridium and produce industrial radioisotopes in the following phases.
- Neutron rays applications including non-destructive testing, neutron distraction and neutron defraction.
- Neutron transformation doping.
- Radioactive wastes treatment resulting from using reactor as per international standards and foundations.
- Potential usage as a regional research and training center in cooperation and coordination of the IAEA.

**Staff working in the program :**

The program is implemented through a functional staff in 2018 estimated with ( 80 ) staff, including ( 60 ) males and ( 20 ) females .

**Performance Measurement Indicators for Program**

Performance Measurement Indicator		Base Year	Value	Actual value	Target Value	Preliminary Self Evaluation	Target Value		
				2017	2018	2018	2019	2020	2021
1	Number of medical radioisotopes produced by the Jordanian Nuclear Reactor for Research and Training	2016	-	-	1	1	3	4	5
2	Number of nuclear engineers and qualified sciences students	2016	20	20	25	25	30	30	30
3	Number of research and studies using reactor	2016	3	3	5	5	8	10	12

**Appropriations Of Nuclear Research/ Nuclear Reactors formerly Program as Per Activities and Projects. ( In JDs )**

Activities and Projects		Actual	Estimated	Re-estimated	Estimated	Indicative	
		2017	2018	2018	2019	2020	2021
<b>Current Expenditures</b>		0	0	0	1,064,000	1,083,000	1,101,000
601	Nuclear researches	0	0	0	1,064,000	1,083,000	1,101,000
<b>Capital Expenditures</b>		0	0	0	1,065,000	1,065,000	1,065,000
003	Establishing and operating the research nuclear reactor	0	0	0	1,065,000	1,065,000	1,065,000
<b>Program / Treasury</b>		0	0	0	1,065,000	1,065,000	1,065,000
<b>Total Program</b>		0	0	0	2,129,000	2,148,000	2,166,000

# Chapter : 2003 Jordan Atomic Energy Commission

( In JDs )

Current Activities Appropriations According to Program							
Prog.	Activites		Actual	Estimated	Re-estimated	Estimated	Indicative
			2017	2018	2018	2019	2020
6181	601	Administrative and support services	0	0	0	2477000	2508000
		Total of Program	0	0	0	2477000	2508000
6184	601	Nuclear researches	0	0	0	1064000	1083000
		Total of Program	0	0	0	1064000	1083000
		Total	0	0	0	3541000	3591000

Capital Projects Appropriations According to Program							
Prog.	Projects		Actual	Estimated	Re-estimated	Estimated	Indicative
			2017	2018	2018	2019	2020
6181	001	Administration and Support Services Program	0	0	0	1000000	1000000
		Administration Project					
	002	Supporting energy projects	0	0	0	535000	535000
		Total of Program	0	0	0	1535000	1535000
6184	003	Establishing and operating the research nuclear reactor	0	0	0	1065000	1065000
		Total of Program	0	0	0	1065000	1065000
		Total	0	0	0	2600000	2600000



# Overall Summary of Current Expenditures for the Years 2017 - 2021

## Chapter: 2003 Jordan Atomic Energy Commission

( In JDs )

Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
21		Compensations of Employees						
2111		Salaries, Wages and Allowances						
	102	Unclassified Employees	0	0	0	288000	291000	294000
	103	Comprehensive Contract Employees	0	0	0	565000	569000	574000
	105	Personal Cost of Living Allowance	0	0	0	365000	371000	377000
	106	Family Cost of Living Allowance	0	0	0	35000	37000	39000
	111	Additional Allowance	0	0	0	792000	804000	817000
	112	Other Allowances	0	0	0	303000	308000	313000
	113	Transportation Allowance	0	0	0	72000	74000	76000
	114	Transport Allowance	0	0	0	30000	32000	34000
	120	Contract Employees	0	0	0	330000	336000	340000
Total			0	0	0	2780000	2822000	2864000
2121		Social Security Contributions						
	301	Social Security	0	0	0	333000	341000	346000
Total			0	0	0	333000	341000	346000
22		Use of Goods and Services						
2211		Use of Goods and Services						
	201	Rents	0	0	0	25000	25000	25000
	202	Telecommunications Services	0	0	0	20000	20000	20000
	203	Water	0	0	0	10000	10000	10000
	204	Electricity	0	0	0	70000	70000	70000
	205	Fuels	0	0	0	40000	40000	40000
	206	Maintenance of Machines, furniture and accessories	0	0	0	3000	3000	3000
	207	Maintenance of vehicles, equipment and accessories	0	0	0	12000	12000	12000
	208	Repair and maintenance of buildings and accessories	0	0	0	7000	7000	7000
	209	Stationery, Publications and Office Supplies	0	0	0	10000	10000	10000
	210	Substances and raw materials (medicines, clothes, food, films, etc..)	0	0	0	10000	10000	10000
	211	Cleaning services and supplies including cleaning contracts	0	0	0	45000	45000	45000
	212	Insurance	0	0	0	12000	12000	12000
	213	Official Travel Missions	0	0	0	30000	30000	30000
	214	Goods and services expenses	0	0	0	34000	34000	34000
Total			0	0	0	328000	328000	328000
28		Other Expenditures						
2821		Other Current Expenditures						
	302	Contributions	0	0	0	95000	95000	95000
	305	Non-Employees' Bonuses	0	0	0	5000	5000	5000
Total			0	0	0	100000	100000	100000
Total of Chapter			0	0	0	3541000	3591000	3638000

Program : 6181 - Administration and Support Services								
Activity : 601 - Administrative and support services								
Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
<b>21</b>		<b>Compensations of Employees</b>						
<b>2111</b>		Salaries, Wages and Allowances						
	102	Unclassified Employees	0	0	0	248000	250000	252000
	103	Comprehensive Contract Employees	0	0	0	435000	438000	442000
	105	Personal Cost of Living Allowance	0	0	0	243000	247000	251000
	106	Family Cost of Living Allowance	0	0	0	25000	26000	27000
	111	Additional Allowance	0	0	0	442000	449000	457000
	112	Other Allowances	0	0	0	271000	275000	279000
	113	Transportation Allowance	0	0	0	51000	52000	53000
	114	Transport Allowance	0	0	0	24000	25000	26000
	120	Contract Employees	0	0	0	80000	82000	83000
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>1819000</b>	<b>1844000</b>	<b>1870000</b>
<b>2121</b>		Social Security Contributions						
	301	Social Security	0	0	0	230000	236000	239000
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>230000</b>	<b>236000</b>	<b>239000</b>
<b>22</b>		<b>Use of Goods and Services</b>						
<b>2211</b>		Use of Goods and Services						
	201	Rents	0	0	0	25000	25000	25000
	202	Telecommunications Services	0	0	0	20000	20000	20000
	203	Water	0	0	0	10000	10000	10000
	204	Electricity	0	0	0	70000	70000	70000
	205	Fuels	0	0	0	40000	40000	40000
	001	Heating	0	0	0	5000	5000	5000
	002	Saloon vehicles	0	0	0	20000	20000	20000
	003	Transport vehicles and heavy equipment	0	0	0	15000	15000	15000
	206	Maintenance of Machines, furniture and accessories	0	0	0	3000	3000	3000
	207	Maintenance of vehicles, equipment and accessories	0	0	0	12000	12000	12000
	208	Repair and maintenance of buildings and accessories	0	0	0	7000	7000	7000
	209	Stationery, Publications and Office Supplies	0	0	0	10000	10000	10000
	210	Substances and raw materials (medicines, clothes, food, films, etc..)	0	0	0	10000	10000	10000
	211	Cleaning services and supplies including cleaning contracts	0	0	0	45000	45000	45000
	212	Insurance	0	0	0	12000	12000	12000
	213	Official Travel Missions	0	0	0	30000	30000	30000
	214	Goods and services expenses	0	0	0	34000	34000	34000
	008	Advertisements and subscriptions	0	0	0	1000	1000	1000
	013	Services, security and guarding contracts	0	0	0	31000	31000	31000
	014	Shipment and clearance fees	0	0	0	2000	2000	2000
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>328000</b>	<b>328000</b>	<b>328000</b>
<b>28</b>		<b>Other Expenditures</b>						
<b>2821</b>		Other Current Expenditures						
	302	Contributions	0	0	0	95000	95000	95000
	014	Saving Fund contribution	0	0	0	27000	27000	27000
	018	International Agency for Atomic Energy and Arab Commission	0	0	0	68000	68000	68000
	305	Non-Employees' Bonuses	0	0	0	5000	5000	5000
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>100000</b>	<b>100000</b>	<b>100000</b>
<b>Total of Activity</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>2477000</b>	<b>2508000</b>	<b>2537000</b>
<b>Total of Program</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>2477000</b>	<b>2508000</b>	<b>2537000</b>

<b>Program : 6184 - Nuclear Research/ Nuclear Reactors formerly</b>								
<b>Activity : 601 - Nuclear researches</b>								
Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
<b>21</b>		<b>Compensations of Employees</b>						
<b>2111</b>		Salaries, Wages and Allowances						
	<b>102</b>	Unclassified Employees	0	0	0	40000	41000	42000
	<b>103</b>	Comprehensive Contract Employees	0	0	0	130000	131000	132000
	<b>105</b>	Personal Cost of Living Allowance	0	0	0	122000	124000	126000
	<b>106</b>	Family Cost of Living Allowance	0	0	0	10000	11000	12000
	<b>111</b>	Additional Allowance	0	0	0	350000	355000	360000
	<b>112</b>	Other Allowances	0	0	0	32000	33000	34000
	<b>113</b>	Transportation Allowance	0	0	0	21000	22000	23000
	<b>114</b>	Transport Allowance	0	0	0	6000	7000	8000
	<b>120</b>	Contract Employees	0	0	0	250000	254000	257000
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>961000</b>	<b>978000</b>	<b>994000</b>
<b>2121</b>		Social Security Contributions						
	<b>301</b>	Social Security	0	0	0	103000	105000	107000
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>103000</b>	<b>105000</b>	<b>107000</b>
<b>Total of Activity</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>1064000</b>	<b>1083000</b>	<b>1101000</b>
<b>Total of Program</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>1064000</b>	<b>1083000</b>	<b>1101000</b>
<b>Total of Chapter</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>3541000</b>	<b>3591000</b>	<b>3638000</b>

# Overall Summary of Capital Expenditures for the Years 2017 - 2021

Chapter : 2003 Jordan Atomic Energy Commission ( In JDs )

Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
		<b>Expenditures</b>						
22		Use of Goods and Services						
2211		Use of Goods and Services						
	512	Operating and Sustaining Expenditures	0	0	0	1010000	1010000	910000
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1010000</b>	<b>1010000</b>	<b>910000</b>
25		<b>Subsidies</b>						
2511		Subsidies to Public Corporations						
	520	Subsidies to non-financial public corporations/ capital	0	0	0	535000	535000	535000
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>535000</b>	<b>535000</b>	<b>535000</b>
28		<b>Other Expenditures</b>						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations	0	0	0	350000	350000	350000
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>350000</b>	<b>350000</b>	<b>350000</b>
		<b>Fixed Assets</b>						
31		<b>Non-financial Assets</b>						
3111		Buildings and Constructions						
	508	Works and Constructions	0	0	0	500000	500000	500000
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500000</b>	<b>500000</b>	<b>500000</b>
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices	0	0	0	80000	80000	80000
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>80000</b>	<b>80000</b>	<b>80000</b>
3122		Inventories						
	503	Materials and supplies	0	0	0	125000	125000	125000
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125000</b>	<b>125000</b>	<b>125000</b>
		<b>Total of Chapter</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2600000</b>	<b>2600000</b>	<b>2500000</b>

# Capital Expenditures According to Program and Projects for the Years 2017 - 2021

Chapter : 2003 Jordan Atomic Energy Commission

( In JDs )

Program 6181 Administration and Support Services								
Project		001 Administration and Support Services Program Administration Project						
Fund Source		102001 Capital (Treasury)						
Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
22		Use of Goods and Services						
2211		Use of Goods and Services						
	512	Operating and Sustaining Expenditures						
	008	Qualifying and training expenses	0	0	0	515000	515000	415000
	015	Operating systems and software	0	0	0	20000	20000	20000
	021	Printing house	0	0	0	5000	5000	5000
	035	Technical and administrative support	0	0	0	275000	275000	275000
	055	Hospitality expenditures	0	0	0	20000	20000	20000
		Total of Item	0	0	0	835000	835000	735000
31		Non-financial Assets						
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	001	Computers and accessories	0	0	0	10000	10000	10000
	069	Modernizing and developing devices and equipment	0	0	0	70000	70000	70000
		Total of Item	0	0	0	80000	80000	80000
3122		Inventories						
	503	Materials and supplies						
	001	Computer supplies and accessories	0	0	0	15000	15000	15000
	006	Laboratories supplies and materials	0	0	0	70000	70000	70000
		Total of Item	0	0	0	85000	85000	85000
		Total of Project / Treasury	0	0	0	1000000	1000000	900000
Project		002 Supporting energy projects						
Fund Source		102001 Capital (Treasury)						
Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
25		Subsidies						
2511		Subsidies to Public Corporations						
	520	Subsidies to non-financial public corporations/ capital						
	031	National Committee for synchrotron	0	0	0	10000	10000	10000
	033	International Committee for synchrotron	0	0	0	275000	275000	275000
	034	Jordanian company for mining	0	0	0	250000	250000	250000
		Total of Item	0	0	0	535000	535000	535000
		Total of Project / Treasury	0	0	0	535000	535000	535000
		Total of Program	0	0	0	1535000	1535000	1435000

# Capital Expenditures According to Program and Projects for the Years 2017 - 2021

Chapter : 2003 Jordan Atomic Energy Commission

( In JDs )

Program 6184 Nuclear Research/ Nuclear Reactors formerly								
Project		003 Establishing and operating the research nuclear reactor						
Fund Source		102001 Capital (Treasury)						
Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
22		Use of Goods and Services						
2211		Use of Goods and Services						
	512	Operating and Sustaining Expenditures						
	015	Operating systems and software	0	0	0	20000	20000	20000
	035	Technical and administrative support	0	0	0	150000	150000	150000
	055	Hospitality expenditures	0	0	0	5000	5000	5000
		Total of Item	0	0	0	175000	175000	175000
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations						
	027	Purchasing consultation services	0	0	0	350000	350000	350000
		Total of Item	0	0	0	350000	350000	350000
31		Non-financial Assets						
3111		Buildings and Constructions						
	508	Works and Constructions						
	040	Constructions	0	0	0	500000	500000	500000
		Total of Item	0	0	0	500000	500000	500000
3122		Inventories						
	503	Materials and supplies						
	006	Laboratories supplies and materials	0	0	0	40000	40000	40000
		Total of Item	0	0	0	40000	40000	40000
		Total of Project / Treasury	0	0	0	1065000	1065000	1065000
		Total of Program	0	0	0	1065000	1065000	1065000
		Total of Chapter	0	0	0	2600000	2600000	2500000